How Much Are You Worth???

Obviously, you’re priceless…but if you could break your body down into the elements that compose it, and then sell those elements, how much money would you make? Write your prediction here: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Then, using the following data, calculate your worth.

1. Find the mass of your body in **grams**. (note: 1 lb = 0.454 kg and 1000 g = 1 kg) If you don’t want to use your own weight, make up one, or use a friend’s.

2. Using the following table, calculate how many grams of each element are in your body. Then calculate the cost of each element in your body. Please show all of your work on a separate sheet of paper.

|  |  |  |
| --- | --- | --- |
| **Element** | **Percent in Body by Mass** | **Cost per gram**  Contributed by: |
| Oxygen | 61% | $1.62 |
| Carbon | 23% | $0.09 |
| Hydrogen | 10% | $26.25 |
| Nitrogen | 2.6% | $1.87 |
| Calcium | 1.4% | $0.18 |
| Sulfur | 0.20% | $0.015 |
| Phosphorus | 1.1% | $0.19 |
| Potassium | 0.20% | $2.56 |
| Sodium | 0.14% | $0.42 |
| Chlorine | 0.12% | $0.02 |
| Silicon | 0.026% | $0.067 |
| Magnesium | 0.027% | $0.13 |
| Zinc | 0.0033% | $0.08 |
| Fluorine | 0.0037% | $1.90 |
| Iron | 0.006% | $0.14 |
| Chromium | 0.006% | $0.20 |

3. Well, what are you worth?? Write your final answer here: